



User's Manual

Dashcam

DrivePro™ 110

(Version 1.0)



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1. Introduction

Thank you for purchasing Transcend DrivePro™ 110 - an advanced dashcam that is specifically designed to capture real time video of events happening outside your vehicle while driving. Mounted on your car's windshield, the DrivePro™ uses a 130° wide angle lens for the best field of view, and records videos in crystal clear Full HD 1080P to ensure all the important details of your trip are recorded. Videos are saved on a microSD memory card as the vehicle is driven. The DrivePro™ bundles with a 16GB Transcend microSD memory card, letting you record around 2 hours of a Full HD footage without the need to purchase additional storage. In addition, its built-in camera allows you to take photos while recording by just one click. This User's Manual will give you step-by-step instructions and advices to help you get the best experience from your new device. Please read it carefully before using the DrivePro™.

Features

- Smooth, detailed Full HD 1080P recording at 30fps resolution
- Bright 2.4-inch color LCD screen
- 130 degree wide angle lens
- Bundled with a 16GB Transcend microSD memory card
- Built-in camera to capture real-time images while recording
- Hi-Speed USB 2.0 connector for easy computer connectivity and fast file transfers
- Record videos in .MOV file format
- Built-in microphone
- Built-in Li-ion battery
- Built-in speaker

2. System Requirements

System requirements for connecting the DrivePro™ to a computer and for using the DrivePro™ Toolbox:

- A desktop or a laptop with a working USB port
 - Windows® 7
 - Windows® 8
 - Windows® 8.1
 - Windows® 10
 - Mac® OS X 10.8.2 or later

3. Package Contents

The DrivePro™ dashcam package includes the following items:

- A DrivePro™ Dashcam



- An Adhesive Mount or a Suction Mount



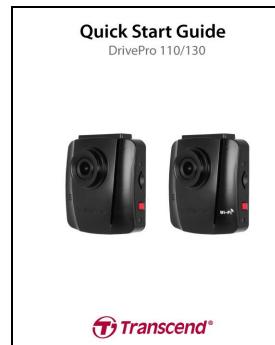
- A Car Adapter



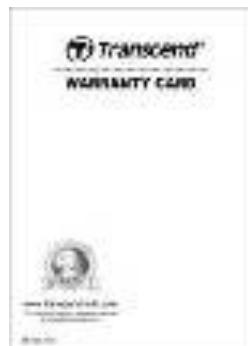
- A 16GB microSD Memory Card



- A Quick Start Guide

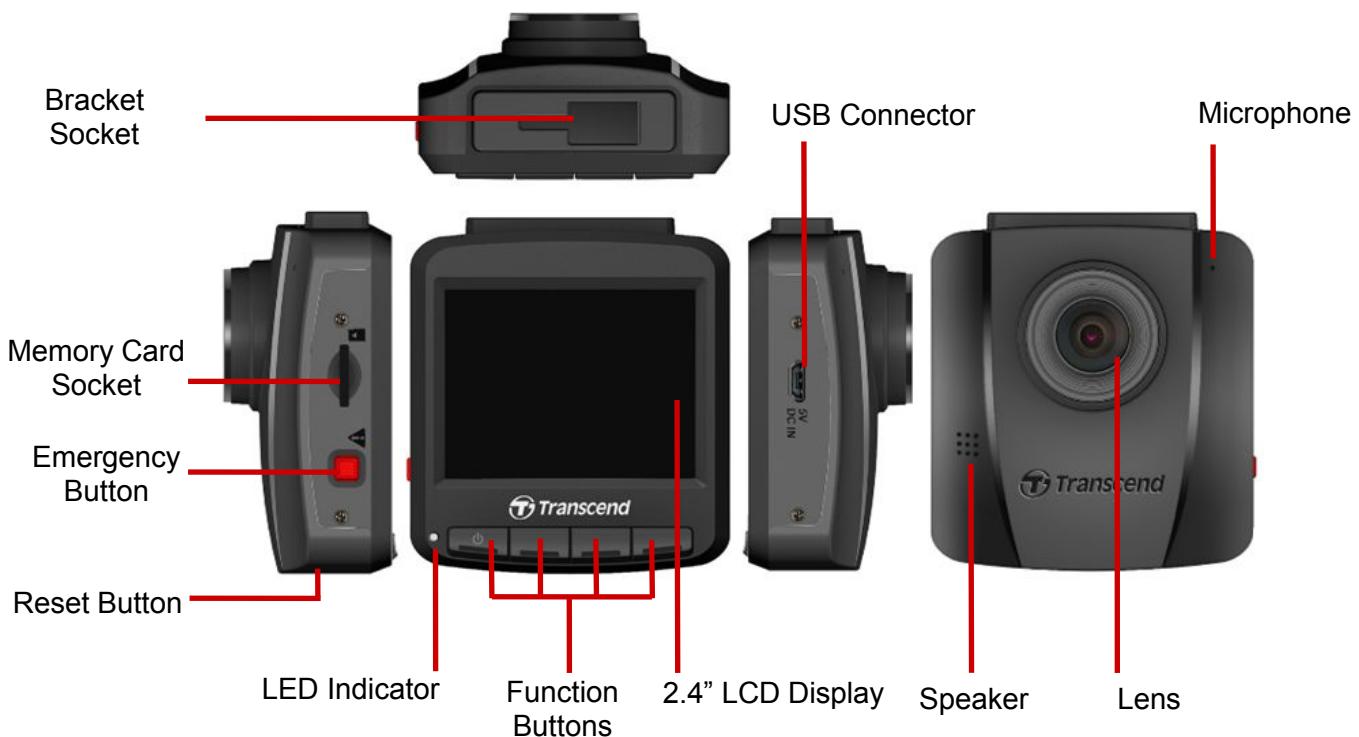


- A Warranty Card



4. Getting Started

4-1 Overview



4-2 Inserting a microSD Memory Card

You must insert a microSD memory card into the DrivePro™ before you can start recording. Please use a MLC-based microSD memory card with 8GB, 16GB, 32GB, 64GB or 128GB capacity (Class 10 or above).

1. Insert a microSD memory card into the appropriate card slot on the left-hand side of the DrivePro™.

Note: Always format new memory cards in the DrivePro™ before using them for the first time. To format a new memory card, press the Settings button during recording, and select **Format Card**. For best recording stability, you are suggested to format the microSD card every 3 months.



WARNING: DrivePro™ 110 can only support FAT32 and exFAT file format, but not NTFS.



2. To remove, push to eject the memory card out of the slot.



WARNING: Do not remove the memory card during shutdown to avoid damages to the memory card and loss of recorded videos

- The following table shows approximate recording time according to capacity and resolution (for reference only):

Card (FAT32)	Capacity	Full HD 1080P 30fps	HD 720P 30fps
8GB	1 hr	2 hr 25 min	
16GB	2 hr 15 min	4 hr 50 min	
32GB	4 hr 30 min	9 hr 40 min	
64GB	9 hr	19 hr 20 min	

4-3 Mounting the DrivePro™

1. Insert the mount bracket into the top of the DrivePro™, and slide sideways until you hear a click.



2. Thoroughly clean and dry the area of the windshield you wish to mount the DrivePro™. If possible, mount the DrivePro™ in the middle of the windshield near the rear-view mirror for the best field of view.

3. Peel off the protective film from the mount bracket's foam sticker, and firmly attach the DrivePro™ to the windshield.
4. Turn the adjustment knob anticlockwise to loosen, and then adjust the DrivePro™'s position.



5. After the DrivePro™ is in the best position, turn the adjustment knob clockwise to make sure that the DrivePro™ is securely locked in place.



4-4 Connecting to Power

Note: Insert a microSD memory card before connecting the DrivePro™ to your car's lighter socket.

1. Connect the small end of the car adapter to the USB connector of the DrivePro™.



2. Connect the other end of the car adapter to your car's lighter socket.



3. After the car engine is switched on, the DrivePro™ will automatically turn on and start recording.
4. After the car engine is switched off, the DrivePro™ will automatically save the current recording, and power off.

Note: Lighter sockets of some types of vehicles will still supply power after the car engine is turned off. If your car is of this type, please unplug your car video recorder from the lighter socket to avoid unnecessary power consumption and unexpected issues.

4-5 Function Buttons



Mode	A	B	C	D
Video Recording	Power	Browse Files	Settings	Take Photos
Browse/Settings	Back*	Up	Down	OK
Video Playback	Back*	Play/Pause	Protected/Unprotected	Delete
View Photos	Back*	Up	Down	Delete

1. Press and hold the button for 3 seconds to manually turn on/off the DrivePro™ in any mode.
2. Long press the button to quickly turn on/off the microphone
3. Long press the button to quickly enter Time-Lapse Video menu.

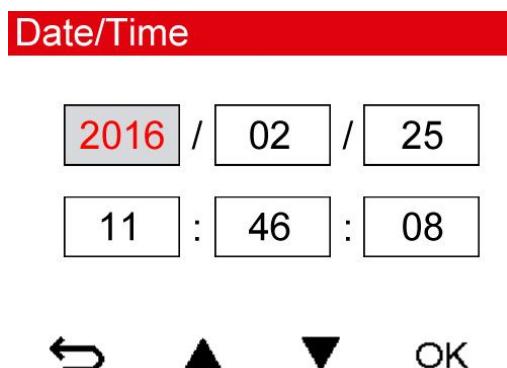
4-6 LED Indicator Reference Chart

LED Status	Definition
Solid Red	Standby
Flashing Red	Recording

4-7 Setting the Date and Time

To set the current date and time:

1. During video recording, press the Settings button .
2. Use  /  to select **Date/Time Settings**, and press .



3. Use  /  to adjust values, and press  to move to the next block.
4. Repeat step 3 above until the date and time settings are complete.

5. Recording Videos

5-1 Recording Screen

1. Recording status indicator
2. Video resolution
3. Voice record status
4. Battery status
5. Time

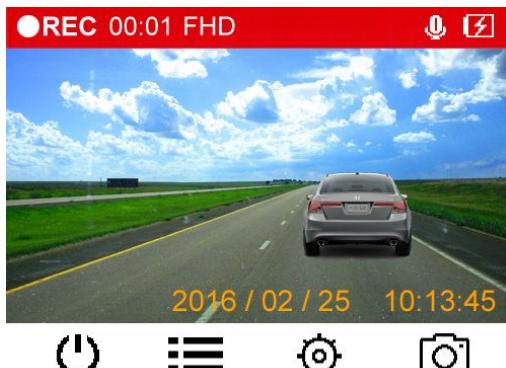


After the car engine is switched on, the automatically turn on and start



DrivePro™ will recording.

By default, one video file is saved for every 3 minutes of recording. To adjust the recording length, please refer to the **Settings** section in this manual.



After the car engine is switched off, the DrivePro™ will automatically save the current recording and power off.

Note: Lighter sockets of some types of vehicles will still supply power after the car engine is turned off. If your car is of this type, please unplug your car video recorder from the lighter socket to avoid unnecessary power consumption and unexpected issues.

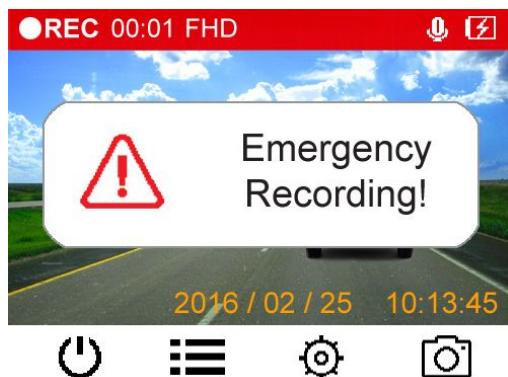
5-2 Emergency Recording

During video recording, press the emergency button on the left-hand side of the DrivePro™ to manually activate emergency recording mode.



30% of the storage space will be saved for emergency video files. Video files recorded in emergency mode are protected from being overwritten.

Manual Emergency Recording: During video recording, press the emergency button on the left-hand side of the DrivePro™ to manually activate emergency recording mode. The emergency icon will appear on the screen when activated.



G-Sensor Emergency Recording: During video recording, the DrivePro™ will automatically activate Emergency Recording mode when detecting a collision.

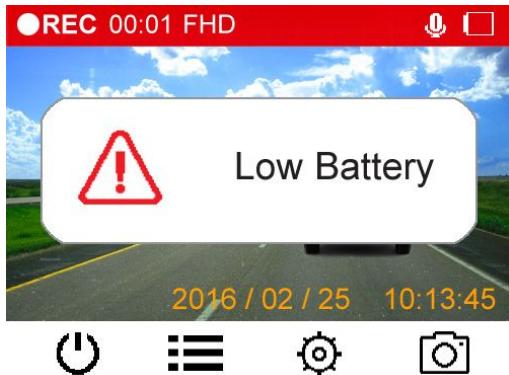
- If the G-Sensor sensitivity is set to “High”, even minor shocks will activate Emergency Recording mode.
- If the G-Sensor sensitivity is set to “Low”, only significant shocks will activate Emergency Recording mode.

G-Sensor sensitivity can be adjusted or disabled in the **Settings** menu.

Note: The earliest emergency file will be overwritten by the latest emergency file recorded.

Low Battery

Please charge the DrivePro™ immediately after viewing the Low Battery warning to avoid errors happening to the system time. Please avoid using the built-in battery to record videos directly.

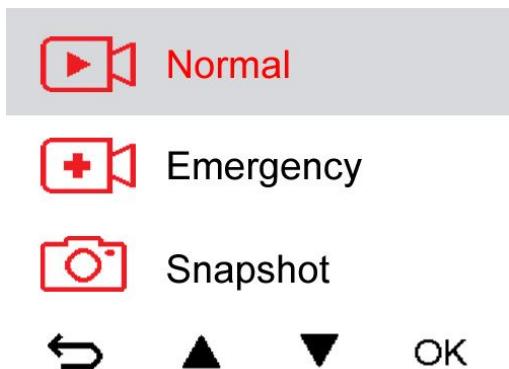


Note: Please fully charge the DrivePro™ before using.

6. Browsing Photos and Playing Videos

6-1 Playing Videos / Browsing Photos

1. During video recording, press the Browse button  .
2. Use  /  to select either **Normal, Emergency or Snapshot**, and press  .



3. Use  /  to select the desired video file, and press  .



4. Press  to pause playback. Press  again to resume playback.



5. Press to return to the video file list.

6-2 Deleting Videos

1. During playback of a video file, press . The message, “Delete?” will pop up.
2. Use / to select “Yes,” and press to delete the file.



6-3 Protecting Videos

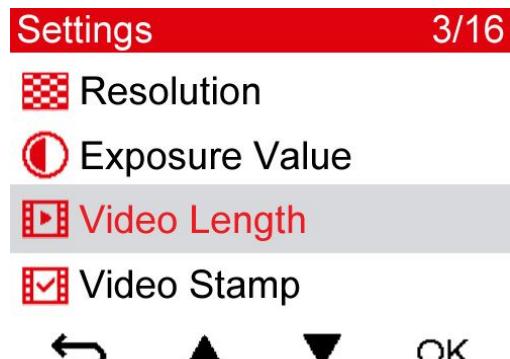
1. During playback of a normal video file, press . The message, “Lock?”, will pop up.
2. Use / to select “Yes,” and press to protect the file.



7. Settings

In the Settings menu, you can adjust settings of video resolution, recording time and G-Sensor sensitivity. You can also set the date/time/time zone, change the interface language, format the memory card, and upgrade firmwares.

1. During video recording, press the Settings button .



2. Use  /  to select the desired menu option, and press .



3. Use  /  to select the desired setting, and press .

4. Press  to return to the Settings menu.

Menu Options



Resolution: Set the resolution/quality for video recording.

Available options: **1080P (FHD) / 720P (HD)**



Exposure Value: Adjust exposure composition value to lighten or darken the preview screen.

Available options: **+2.0 / +1.5 / +1.0 / +0.5 / 0 / -0.5 / -1.0 / -1.5 / -2.0**



Video Length: Set the recording length of each recorded video file.

Available options: **1 min / 3 mins / 5 mins**



Video Stamp: Display the current time of the event of the video being recorded.

Available options: **Disable / Enable**



Time-Lapse Video: Set a preferred time interval to make time-lapse videos. Time-lapse video mode can only be enabled manually; once enabled, it will replace Normal recording mode.

Available options: **Disable / 1 sec per shot / 2 sec per shot / 4 sec per shot**

Note: To prevent the car battery from being completely drained, the DrivePro™ will automatically power off after 48 consecutive hours of recording in Time-Lapse Video mode.



G-Sensor: Adjust the sensitivity of the G-Sensor.

Available options: **Disable / Low / Medium / High**



Headlight Reminder: When the DrivePro™ detects poor lighting conditions, the headlight reminder will automatically activate.

Available options: **Disable / Enable**



Driver Fatigue Alert: Remind the driver of the need to rest after driving for a preset, driver-determined period of time.

Available options: **Disable / 1 hour / 2 hours / 3 hours / 4 hours**



Microphone: Turn on/off the microphone during video recording.

Available options: **Disable / Enable**



Volume: Set the speaker volume level.

Available options **0 ~7 (You can choose 0 to switch on Silent Mode)**



Auto Display Off: Set duration for display to automatically turn off after recording begins.

Available options: **Never / After 1 min / After 3 mins**

Note: Auto Display Off is disabled when Headlight Reminder or Driver Fatigue Alert is enabled.



Delay Power Off: Schedule the DrivePro™ to shut down at a certain time.

Available options: **Disable / 10 secs / 30 secs**



Date/Time Settings: Set the current date, time, and time zone.



Light Frequency: Select the appropriate frequency to avoid flashing A/C light.

Available options: **50Hz / 60Hz**



Language: Set the on-screen display menu language.

Available options: English / 繁體中文 / 简体中文 / 日本語 / Deutsch / Español / Français / Italiano / Русский / Português / Ελληνικά / Türkçe / 한국어



Information: Display the DrivePro™'s current firmware version, card capacity and free space.



Format Card: Format the microSD memory card.

Available options: No / Yes



WARNING: Formatting will erase all the data stored in the card.



Restore Defaults: Reset all settings to factory default settings.

Available options: No / Yes



Upgrade Firmware: Keep your DrivePro™ up-to-date with the latest version downloaded from Transcend website <http://www.transcend-info.com/Support/service>.

1. After downloading the firmware from Transcend website, decompress it and put it in the "SYSTEM" folder in the microSD memory card.

名稱	修改日期
N-VIDEO	2013/11/18 下午 01...
P-VIDEO	2013/11/18 下午 01...
SYSTEM	2013/11/18 下午 01...

2. Insert the microSD memory card that contains the latest firmware version.
3. Select Firmware Upgrade from the Settings menu, and press OK to start the firmware detection process. The DrivePro™ will automatically find the latest firmware file.



Upgrade Firmware

Upgrade firmware?

✓ Cancel

Confirm

◀ ▲ ▼ OK

WARNING: NEVER remove the power cord or the microSD memory card while the firmware is being upgraded.



If the DrivePro™ cannot be turned on due to firmware upgrade failure, please contact Transcend customer service for technical support.

8. DrivePro™ Toolbox Software

The DrivePro™ Toolbox, developed for Windows, features a user-friendly interface that allows you to select and play videos recorded on your DrivePro™ without the need to install separate codecs.

1. Download the installation files from: <http://www.transcend-info.com/downloads>
2. Install DrivePro™ Toolbox software on your desktop or laptop.

The useful features include:

1. Video Sorting
Easily sort videos by filename, recording date or group.
2. Smooth Video Playback
Connect the DrivePro™ or use a microSD card slot supported card reader or adapter to play back recorded video events on your Windows OS computer.

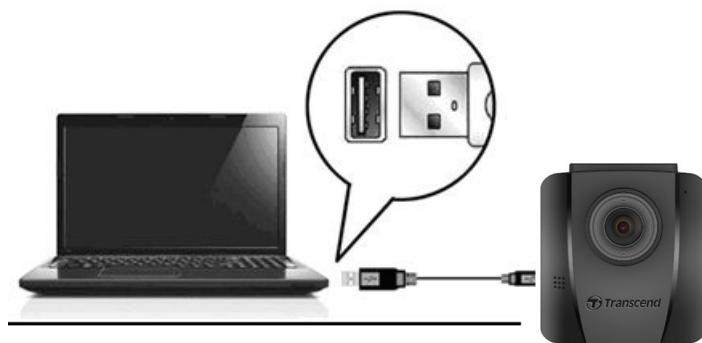
9. Transferring Files to a Computer

To transfer files between the DrivePro™'s memory card and your computer:

Option 1: Take the microSD memory card out of the DrivePro™, and insert to a compatible card reader to transfer files to your computer.

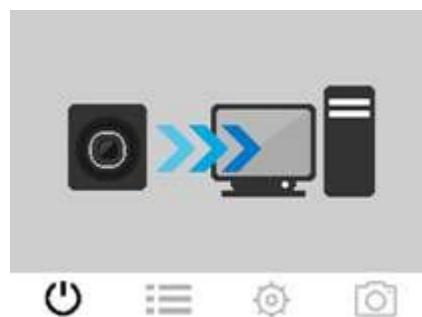
Option 2:

1. Insert the microSD memory card into the DrivePro™.
2. Plug the small end of a USB cable into the Micro-B USB port located on the right-hand side of the DrivePro™.
3. Plug the large end of the cable into an available USB port on your desktop or laptop.



DP110 package does not contain any USB cable.

The DrivePro™ will display the following screen when connected to a computer:



■ Windows 7, 8, 8.1 and 10

No drivers are required for connecting the DrivePro™ to your desktop or laptop. Windows® Operating Systems have built-in drivers to support your DrivePro™. Upon successful connection to your computer, a new **Removable Disk** drive with a newly assigned drive letter representing the DrivePro™ will automatically appear in **My Computer**, and a Removable Hardware icon will appear in the Windows System Tray.

Name	Type	Total Size	Free Space
Hard Disk Drives (2)			
Local Disk (C:)	Local Disk	976 GB	237 GB
Local Disk (D:)	Local Disk	886 GB	3.19 GB
Devices with Removable Storage (1)			
Removable Disk (E:)	Removable Disk		

*Note: (I:) is an example drive letter – the letter in your “My Computer” window may differ.

Your DrivePro™ is now ready to transfer data just like an external hard drive. To transfer videos, simply drag-and-drop files from the folder that represents the DrivePro™.

Proper removal of your DrivePro™ from Windows:

1. Click once on the **Removable Hardware** icon  in the system tray.
2. A **Safely Remove Hardware** window will pop up. Click to continue.
3. A window stating, “The ‘USB Mass Storage Device’ device can now be safely removed from the system,” will pop up. Unplug your DrivePro™ from the USB port after seeing this message.



■ Mac® OS X 10.8.2 or later

No drivers are required. Plug your DrivePro™ into an available USB port directly, and your computer will automatically detect it.



Proper removal of your DrivePro™ from Mac OS:

Drag-and-drop the Disk icon corresponding to your DrivePro™ into the trashcan, and then unplug your DrivePro™ from the USB port.



- 1. WARNING:** To prevent data loss, always follow the proper removal procedures when disconnecting the DrivePro™ from your computer.
2. When the DrivePro™ is connected to a computer, it can only be used for transferring files. You will not be able to use any of the DrivePro™'s features at this time. Please disconnect your DrivePro™ from the computer to resume normal function.
3. **NEVER** use the “format” or “initialize disk” function while the DrivePro™ is connected to your computer, even if prompted to do so.

10. Troubleshooting

If a problem occurs to your DrivePro™, please first check the instructions listed below before sending your DrivePro™ for repair. If you cannot find any ideal solution to your question below, please consult your dealer, service center, or local Transcend branch office for further help. You can also visit Transcend website for FAQ and Technical Support services. For any Hardware issues, please refer to the DrivePro™ User's Manual.

■ My computer operating system cannot detect my DrivePro™

Please check the followings:

1. Is your DrivePro™ properly connected to the USB port? If not, unplug and connect it again. Make sure that both ends of the USB cables are properly connected as shown in the User's Manual.
2. Is your DrivePro™ connected to the Mac keyboard? If yes, try to plug it in an available USB port on your Mac Desktop directly.
3. Is the computer's USB ports enabled? If not, refer to the user's manual of your computer (or motherboard) to enable them.

■ None of the DrivePro™ buttons are responding (hangs / lags / stalls)

Try unplugging the car adapter from your DrivePro™, and reconnecting it to your DrivePro™ again.

■ My DrivePro™ cannot play videos stored in my memory card.

Edited videos may not be displayed properly on your DrivePro™.

■ Nothing happens when I press the “Emergency Recording” button.

Emergency Recording only works in the recording mode.

11. Safety Cautions

These usage and safety guidelines are **IMPORTANT!** Please follow them carefully to ensure your own personal safety, and help protect your DrivePro™ from potential damages.

■ General Use

- For in-car use only.
- For your safety, do not operate the DrivePro™, or use the DrivePro™ App while driving.
- Avoid placing the DrivePro™ in an extreme temperature environment.
- Avoid splashing water or any other liquids on the DrivePro™ and accessories.
- Do not use the DrivePro™ in an environment with strong magnetic fields or excessive vibration.
- Only use the car adapter provided by Transcend. Other car adapters may not compatible with the DrivePro™.
- Lighter sockets of some types of vehicles will still supply power after the car engine is turned off. If your car is of this type, please unplug your car video recorder from the lighter socket to avoid unnecessary power consumption and unexpected issues.

■ Mounting Location

- Never place the DrivePro™ where the driver's view or deployment of airbags is obstructed.
- Mount the DrivePro™ within the range of the windshield wipers to ensure clear visibility in rain.



WARNING: Remove the DrivePro™ carefully if it is mounted on a tinted window to prevent damages to the tint film.

■ Backing up Data

- **Transcend does NOT take any responsibility for data loss or damage during operation.**
We strongly advise that you regularly back up data in your memory card to a computer or other storage medium.
- To ensure Hi-Speed USB 2.0 data transfer rates when connecting your DrivePro™ to a computer, please check if the computer is installed correct USB drivers. If you are not sure how to check this, please refer to the User's Manual of the computer or motherboard for USB driver information.

12. Specifications

Panel:	2.4" color LCD
Speaker / Microphone:	1.0 Watt / 0.5 mA (built-in)
Connect Interface:	USB2.0
Storage Capacity:	MLC-based MicroSD, 8GB / 16GB / 32GB / 64GB /128GB (Class 10 or above)
Control buttons:	4 function buttons 1 emergency recording button 1 reset button
Dimensions:	70.2 mm (L) × 63.1mm (W)× 32.5mm (H)
Weight:	71g
Power Supply (car charger):	Input DC12V~24V Output DC5V / 1A
Operating Temperature:	-20°C (-4°F) ~ 65°C (149°F)
Video Formats:	H.264 (MOV: up to 1920x1080 30fps)
Lens:	F/2.0, 130° wide angle
Resolution / Frame Rate	Full HD (1920 x 1080) 30fps HD (1280 x 720) 30fps
Certification:	CE, FCC, NCC, BSMI
Warranty:	2 years

1. We strongly recommend the use of MLC-based memory cards to reach the optimal recording performance as car video recorders require extensive read/write. Using TLC-based memory cards on your car video recorder might result in unstable performance.

Note: 2. Besides the bundled microSD card, we recommend Transcend's High Endurance microSD card as an additional purchase to reach the most stable recording performance. Please see below for the recommend microSD cards:

- 16/32GB High Endurance microSDHC (TS16G/32GUSDHC10V)
- 64GB High Endurance microSDXC (TS64GUSDXC10V)

13. Recycling and Environmental Protection



Recycling the Product (WEEE): Your product is designed and manufactured with high quality materials and components, which can be recycled and reused. When you see the crossed-out wheel bin symbol attached to a product, it means that the product is covered by the European Directive 2002/96/EC:

Never dispose of your product with other household waste. Please inform yourself about the local rules on the separate collection of electrical and electronic products. The correct disposal of your old product helps prevent potential negative consequences on the environment and human health.



Battery Disposal: Your product contains a built-in rechargeable battery covered by the European Directive 2006/66/EC, which cannot be disposed of with normal household waste. Please inform yourself about the local rules on separate collection of batteries. The correct disposal of batteries helps prevent potentially negative consequences on the environment and human health.

For products with non-exchangeable built in batteries: The removal of (or the attempt to remove) the battery invalidates the warranty. This procedure is only to be performed at the end of the product's life.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

14. Federal Communications Commission (FCC) Statement

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received including interference that may cause undesired operation.

This Equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

15. Two-year Limited Warranty

This product is covered by a Two-year Limited Warranty. Should your product fail under normal use within two years from the original purchase date, Transcend will provide warranty service pursuant to the terms of the Transcend Warranty Policy. Proof of the original purchase date is required for warranty service. Transcend will inspect the product and in its sole discretion repair or replace it with a refurbished product or functional equivalent. Under special circumstances, Transcend may refund or credit the current value of the product at the time the warranty claim is made. The decision made by Transcend shall be final and binding upon you. Transcend may refuse to provide inspection, repair or replacement service for products that are out of warranty, and will charge fees if these services are provided for out-of-warranty products.

Limitations

Any software or digital content included with this product in disc, downloadable, or preloaded form, is not covered under this Warranty. This Warranty does not apply to any Transcend product failure caused by any accident, abuse, mishandling or improper usage (including use contrary to the product description or instructions, outside the scope of the product's intended use, or for tooling or testing purposes), alteration, abnormal mechanical or environmental condition (including prolonged exposure to humidity), acts of nature, improper installation (including connection to incompatible equipment), or problems with electrical power (including undervoltage, overvoltage, or power supply instability). In addition, damage or alteration of warranty, quality or authenticity stickers, and/or product serial or electronic numbers, unauthorized repair or modification, or any physical damage to the product or evidence of opening or tampering with the product casing will also void this Warranty. This Warranty shall not apply to the transferees of Transcend products and/or anyone who stands to profit from this Warranty without Transcend's prior written authorization. This Warranty only applies to the product itself, and excludes integrated LCD panels, rechargeable batteries, and all product accessories (such as card adapters, cables, earphones, power adapters, and remote controls).

Transcend Warranty Policy

Please visit www.transcend-info.com/warranty to view the Transcend Warranty Policy. By using the product, you agree that you accept the terms of the Transcend Warranty Policy, which may be amended from time to time.

Online Registration

To expedite warranty service, please access www.transcend-info.com/register to register your Transcend product within 30 days of the purchase date.



Transcend Information, Inc.

www.transcend-info.com

*The Transcend logo is a registered trademark of Transcend Information, Inc.

*The specifications mentioned above are subject to change without notice.

*All logos and marks are trademarks of their respective companies.

16. GNU General Public License (GPL) Disclosure

Firmware incorporated into this product and/or software used for this product may include third party copyrighted software licensed under the GPL (hereinafter referred to as "GPL Software"). In accordance with the GPL, if applicable: 1) the source code for the GPL Software may be downloaded at no charge or obtained on CD for a nominal charge by calling Customer Support within three years of the date of purchase; 2) you may copy, re-distribute and/or modify the GPL Software under the terms of the GNU General Public License as below or any later version, which may be obtained at <http://www.gnu.org/licenses/gpl.html>; 3) the GPL Software is distributed WITHOUT ANY WARRANTY, without even implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. The entire risk as to the quality and performance of the GPL Software is with you. Transcend does not provide any support for the GPL software.

17. End-User License Agreement (EULA)

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